## I/WE CLAIM: Apparatus comprising: a first supply source of sterile air; a supply source of sterilant; an atomizing system producing an atomized 4 sterilant from the mixing of the sterile air from the first 5 supply source of sterile air with the sterilant; a second supply source of a hot sterile air for providing the hot sterile air to the atomized sterilant; a probe for applying the atomized sterilant into an interior of /a container; and a third supply source of a hot sterile drying air for activating and drying the sterilant in the interior of the container. The apparatus of claim 1, further including a heater 1 2. for adding additional heat to the atomized sterilant. 2

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bottle.

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The apparatus of claim 1, wherein the container is a

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- 1 4 The apparatus of claim 1, wherein the sterilant is
- 2 hydrogen peroxide.
- The apparatus of faim 1, wherein the supply source of
- 2 sterilant includes a spoon dipper apparatus.
  - 6. The apparatus of claim 1, wherein the atomizing system further includes an atomizing venturi.
    - 7. The apparatus of claim 1, wherein the second supply source of hot sterile air further includes a humidity control system for maintaining the humidity of the hot sterile air.
    - 8. The apparatus of claim 1, wherein the probe for applying the sterilant is a spray nozzle.
- 9. The apparatus of claim 1, wherein the probe for applying the sterilant extends into the container.



- 1 10. The apparatus of claim 1, wherein after drying the
- 2 container interior surface retains a concentration of
- 3 hydrogen peroxide less than .5 PPM.

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1 11. A method prov

A method comprising:

providing a first supply of sterile air;

providing a supply of sterilant;

producing an atomized sterilant by mixing the

first supply of sterile air with the sterilant;

providing a second supply of hot sterile air to the atomized sterilant;

sterilant into an interior of a container; and supplying a third supply of hot sterile drying air

for activating and drying the sterilant in the interior of the container.

- 12. The method of claim 11, further including the step of providing a heater for adding additional heat to the atomized sterilant.
- 13. The method of claim 11/ wherein the container is a bottle.

- 1 14. The method of claim 11, wherein the sterilant is hydrogen peroxide.
- 1 15. The method of claim 11, wherein the step of supplying a supply of stepilant further includes the step of providing a spoon dipper apparatus for measuring the quantity of the sterilant.
  - 16. The method of claim 11, wherein the step of producing an atomized sterilant further includes providing an atomizing venturi for mixing the first supply of sterile air with the sterilant.
  - 17. The method of claim 11, wherein the step of providing a second source of hot sterile air further includes providing a humidity control system for maintaining the humidity of the hot sterile air.
- 1 18. The method of claim 11, wherein the step of supplying a 2 probe further includes providing a spray nozzle for applying 3 the sterilant.

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- 1 19. The method of claim 11, wherein the step of supplying a probe further includes extending the probe into the container.
  - 20. The method of claim 11, wherein the step of supplying a third supply of hot sterile drying air further includes the interior of the container retaining a concentration of hydrogen peroxide less than .5 PPM.

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21. Apparatus comprising:

means for supplying a first source of sterile air; means for supplying a source of sterilant;

means for providing an atomizing system for producing an atomized sterilant from the mixing of sterile air from the first source of sterile air with the sterilant; means for supplying a second source of hot sterile air to the atomized sterilant;

means for applying the atomized sterilant to an interior of a container; and

means for supplying a third source of hot sterile drying air into the interior of the container for activating and drying the sterilant.

22. The apparatus of claim 21, wherein the means for supplying a third source of hot sterile drying air further includes a means for providing a residual concentration of hydrogen peroxide less than .5 PPM.